



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

To,

Date: 29-06-2022

ASSISTANT EXECUTIVE ENGINEER
PROJECT SUB DIVISION
BBMP
BANGALORE

Dear Sir,

**Sub: M/s. Civil Pro Services for the work of "PROVIDING RO PLANT IN JAKKUR
IN WARD NO.05."**

Ref: 1. Work Order No: EE(Project)/YnkZone/WO/134/2020-21

2. Job code: 005-21-000017

We are herewith forwarding to Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara
Dasarahalli, Basaveshwaranagara, Bangalore-79. First and Part bill duly verified and certified
that the Work is satisfactory and for a Gross Value of Rs.4,11,955.23/- (Rs. Four Lakhs Eleven
Thousand Nine Hundred Fifty Five and Twenty Three Paise Only).

Thanking you,

*Sd/ Anjaneyulu Be
For N/A*

Yours faithfully,

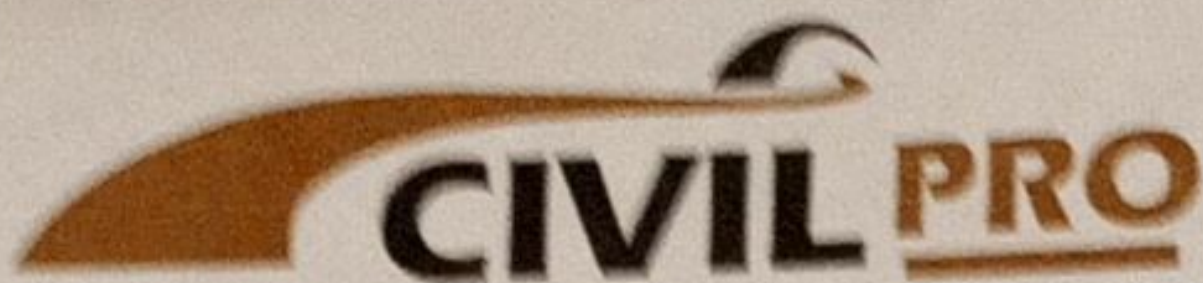


For Civil Pro

R KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TG-5548

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QC ABSTRACT

NAME OF WORK: Providing RO Plant in Jakkur in Ward No.05

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
2	Coarse aggregate(40 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
3	Coarse aggregate(20 mm down size)	Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
4	Fine aggregate	Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
5	Steel	ReBend test	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
6	Block(400*200*200)	COMPRESSIVE STRENGTH	One Test		1	1
		Compressive Strength(7days and 28days)	4 set /5-50 cum	7.1	8	8
7	RCC(M25)	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
9	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

[Signature]

Asst. Executive Engineer

Project Division

Yelahanka Zone

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LAB BBMP, Bangalore - 92

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-10-13-07 Date: 28-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M.C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING,
Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste,
Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 26-04-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.22	—
2	Finess by Air permeability method (m ² /kg.Min)	289.5	225m ² /kg, Min
3	Density (gm/cc)	3.11	—
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-10-13-07 Date: 24-05-22

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Providing RO Plant in Jakkur in Ward No.05

Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79

Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-04-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 26-04-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
Page 1 of 1
End of Report****



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No: TS-5548

Formal No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-10-13-07 Date: 28-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP,
Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara
Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 25-04-22
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 25-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

M : 9972924526 | Tel : +91 80 2346630 | Email: anob630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-10-13-07

Date: 28-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.18	—

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[Handwritten signature]
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

FOR CIVIL Pro.
[Handwritten signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-10-13-07 Date: 27-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 25-04-22

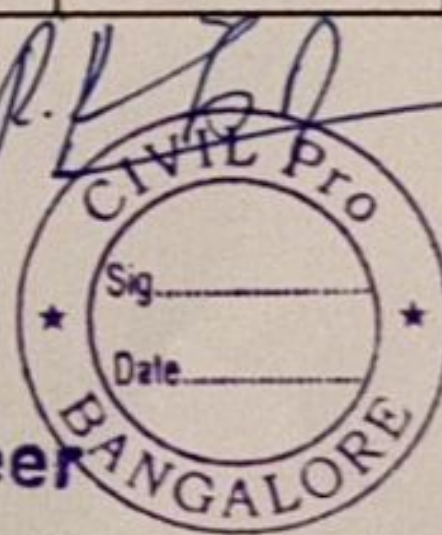
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	-

Page 1/2

Asst. Executive Engineer
Project Division
Yeiahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2022-10-13-07

Date: 27-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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R. KARTHIK RECHAN

Authorized Signature

Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-10-13-07 Date: 27-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-22
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 25-04-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	46	71	7.1	92.9	60-95	75-100	85-100	95-100
4	1.18 mm	235	306	30.6	69.4	30-70	55-90	75-100	90-100
5	600 micron	225	531	53.1	46.9	15-34	35-59	60-79	80-100
6	300 micron	185	716	71.6	28.4	5-20	8-30	12-40	15-50
7	150 micron	185	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Page 1/2

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2022-10-13-07

Date: 27-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.52	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	9.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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[Handwritten signature]
Asst. Executive Engineer
Project Division
Yelachenka Zone
BBMP, Bangalore - 92



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[Handwritten signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Date: 07-06-22

Lab ID : CP-2022-10-13-07
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-06-22
Sample Type : Plaster Sand
Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 04-06-22

Total weight taken		1000		grams		% Passing	Requirement as per IS 1542:1992
Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained			
1	10 mm	0	0	0	100	100	
2	4.75 mm	15	15	1.5	98.5	95-100	
3	2.36 mm	23	38	3.8	96.2	95-100	
4	1.18 mm	45	83	8.3	91.7	90-100	
5	600 micron	105	188	18.8	81.2	80-100	
6	300 micron	302	490	49.0	51.0	20-65	
7	150 micron	395	885	88.5	11.5	0-15	
8	Pan	115	1000	100.0	0.0	---	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : tech@civilproexperts@gmail.com, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Date: 07-06-22

Lab ID : CP-2022-10-13-07

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.95	—
2	Specific Gravity	2.51	—
3	Material finer than 75 micron(%)	11.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 27-04-22

Lab ID : CP-2022-10-13-07
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-22
Sample Type : INDUS
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 26-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	INDUS	Fe500	8	0.392	524	632	21.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.612	548	672	21.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.885	562	683	20.0%	Satisfactory	Satisfactory
4	INDUS	Fe500	16	1.583	572	693	19.0%	Satisfactory	Satisfactory
5	INDUS	Fe500	20	2.473	589	699	19.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Project Division
Yelahanka Zone
BBMP, Bangalore-92



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT FOR SAND MASONRY MORTARS

Date: 07-06-22

Lab ID : CP-2022-10-13-07
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-06-22
Sample Type : Fine Aggregate, M.Sand for Mortar
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 04-06-22
Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	33	33	3.3	96.7	90-100
3	1.18 mm	252	285	28.5	71.5	70-100
4	600 micron	210	495	49.5	50.5	40-100
5	300 micron	202	697	69.7	30.3	5-70
6	150 micron	199	896	89.6	10.4	0-15
7	Pan	104	1000	100.0	0.0	0

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Asst. Executive Engineer
Project Division
Yelahanka Zone



M : 9972924526 | Tel : +91 80 23444444 | Email : civilproexperts@gmail.com

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TEST REPORT FOR SAND MASONRY MORTARS

Date: 07-06-22

Lab ID

CP-2022-10-13-07

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.92	—
2	Specific Gravity	2.54	—
3	Material finer than 75 micron(%)	10.7	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.91	—
5	Loose Bulk Density (Kg/litre)	1.75	—

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Note:

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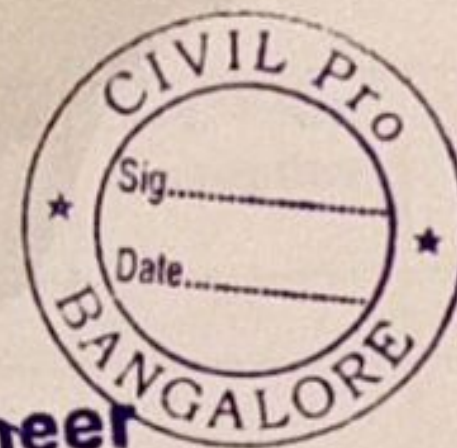
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****End of Report****



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[Handwritten signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 14-05-22

Lab ID : CP-2022-10-13-07
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-05-22
Sample Type/Size : Solid concrete blocks size (400X200X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 10-05-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	398	203	198	15997	32.379	2024.0	2058.7	Not less than 1800Kg/m ³
2	404	199	201	16160	33.466	2070.9		
3	401	199	203	16199	33.710	2081.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.48	31.86	4.85	4.19	Shall not be more than 10% by mass
2	33.62	32.32	3.86		
3	33.78	32.48	3.86		

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-3548

Lab ID

CP-2022-10-13-07

Date: 14-05-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	199	202	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	403	200	201	
3	400	200	200	
4	403	203	200	
5	399	200	199	
6	402	202	203	
7	403	201	203	
8	402	199	201	
9	400	200	203	
10	402	202	202	
11	403	200	202	
12	403	200	200	
13	400	201	201	
14	400	202	203	
15	399	200	201	
16	399	202	201	
17	399	202	201	
18	402	203	201	
19	402	200	203	
20	401	199	200	
Average of 20	401	201	201	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID

: CP-2022-10-13-07

Date: 14-05-22

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	199	79603	438.8	5.5	5.7
2	403	200	80711	471.5	5.8	
3	400	200	79903	463.4	5.8	
4	403	203	81765	418.7	5.1	
5	399	200	79862	457.5	5.7	
6	402	202	81382	462.7	5.7	
7	403	201	80923	456.5	5.6	
8	402	199	80035	476.3	6.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.



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[Signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-13-07 Date: 11/05/2022
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No.05
Agency : Sri.M.C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-05-22
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 11/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M25	04/05/2022	11/05/2022	150.88 X 149.49 X 150.42	22554	9.045	540.5	24.0	22.9
2	Footing Concrete	M25	04/05/2022	11/05/2022	152.00 X 149.87 X 150.25	22780	8.865	506.6	22.2	
3	Footing Concrete	M25	04/05/2022	11/05/2022	149.65 X 149.65 X 149.42	22395	8.276	504.3	22.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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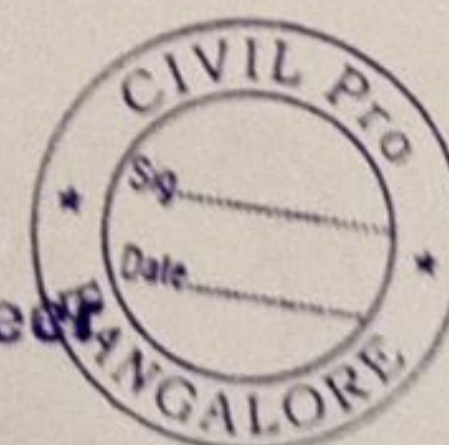
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Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No. CP-0048

Form No. CP/TS/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2022

Lab ID : CP-2022-10-13-07
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing RO Plant in Jakkur in Ward No. 25
Agency : Sri M C Adarsh, #2427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveswaramangara, Bangalore-79
Customer's Reference : EE(Project)/YnkZone/WO/134/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-05-22
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 01/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M25	04/05/2022	01/06/2022	150.40 X	22783	8.416	630.3	27.7	27.6
					150.48 X					
					150.39					
2	Footing Concrete	M25	04/05/2022	01/06/2022	149.80 X	22893	8.736	587.5	26.2	27.6
					149.49 X					
					150.72					
3	Footing Concrete	M25	04/05/2022	01/06/2022	151.53 X	22845	8.362	658.6	28.8	27.6
					150.76 X					
					151.71					

* The results obtained are satisfactory as per standard requirements.

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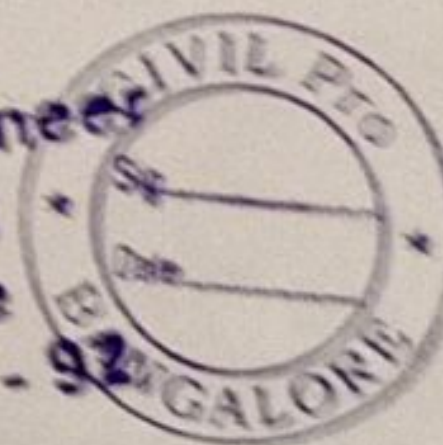
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Project Division
Yelahanka Zone
BBMP, Bangalore - 92



FOR CIVIL PRO
R KAREEM RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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